

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/004727 A1

(51) International Patent Classification⁷: **A61B 17/064**

(21) International Application Number:
PCT/IL2004/000624

(22) International Filing Date: 11 July 2004 (11.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/486,264 11 July 2003 (11.07.2003) US

(71) Applicant (for all designated States except US): **ENDO-
GUN MEDICAL SYSTEMS LTD.** [IL/IL]; P.O.Box 408,
South Industrial Zone, 11013 Kiriath Shmona (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PAZ, Adrian**
[IL/IL]; 13 Elazar Friedman Street, 49444 Petach Tikva

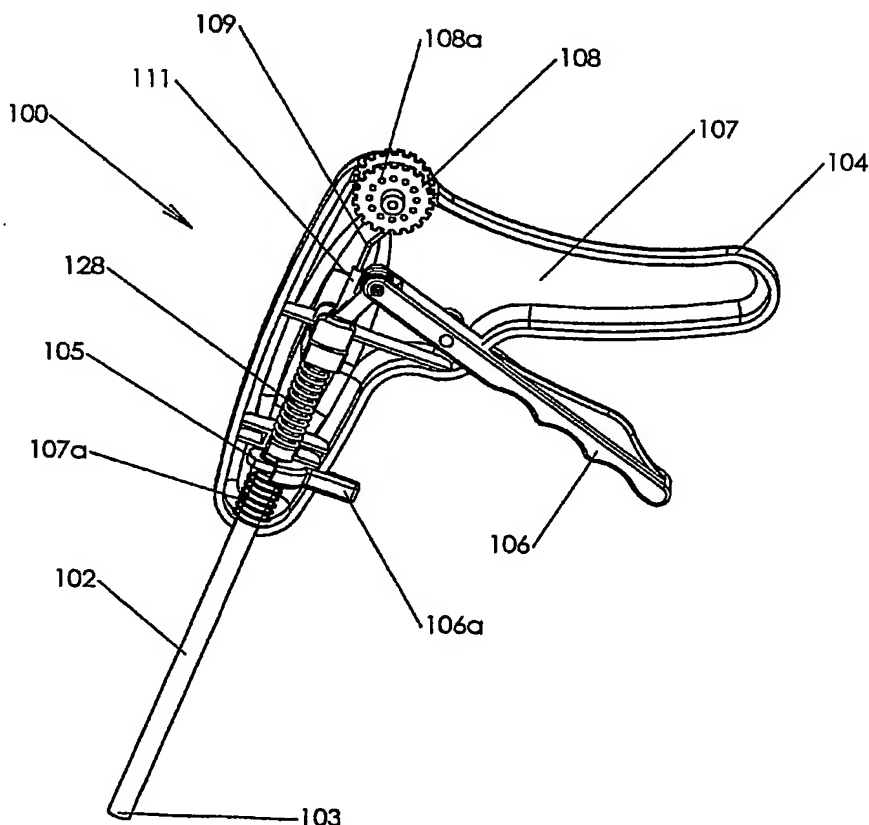
(IL). **ROTENBERG, Dan** [IL/IL]; 117 Einstein Street,
34601 Haifa (IL). **HOD, Eitan** [IL/IL]; 29/2 Narkis Street,
30900 Zichron Ya'akov (IL). **KONIK, Anatoli** [IL/IL];
26/9 Golumb Street, 33393 Haifa (IL). **SHAHAR, Mark**
[IL/IL]; 3 Hadera Street, 62095 Tel-Aviv (IL). **SHABAT,
Roni** [IL/IL]; Kibbutz Yizrael, 19350 Galil Tachton (IL).

(74) Agent: **REINHOLD COHN AND PARTNERS**; P.O.Box
4060, 61040 Tel Aviv (IL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

[Continued on next page]

(54) Title: **SURGICAL FASTENERS AND DEVICES FOR SURGICAL FASTENING**



(57) Abstract: A surgical fastening device (100) for pinning a surgical filament to a body tissue. The device includes a grasping handle (107) and a slender shaft (102) extending from the grasping handle. A compartment (104) contains one or more surgical fasteners. An ejecting mechanism is used to eject a surgical fastener from a compartment containing one or more surgical fasteners. The device also includes a filament dispensing system (108) that dispenses surgical filament (109) along the shaft so that a fastener grasps the filament when being ejected from the shaft. The invention also provides surgical fasteners and surgical filaments for use in the device.



(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report